

B1  
atypical cytometry and morphology, further comprising means to conduct DNA ploidy quantization of said atypical cells.

B2  
Sub 4 19. (Amended) The system of claim 18, wherein said computer plots a histogram based on the DNA ploidy of said cell population.

Please cancel claim 22.

B3  
Sub 5 23. (Amended) The system of claim 16, comprising the further examination of said atypical cells with molecular diagnostic techniques.

Add new claims as follows:

B4  
Sub 6 24. The system of claim 16, wherein said cell population is retrieved from epithelial tissue, further comprising a brush which removes said cell population from said tissue, said brush removing cells from at least two layers of said epithelial tissue.

25. The system of claim 24, wherein said cancerous and precancerous cells are examined for abnormalities using completer assisted analysis.

Sub 7 26. The system of claim 24, wherein the location of said cells exhibiting both atypical morphology and cytometry are retrieved by said completer for DNA ploidy analysis by a pathologist on a cell by cell basis.